

Work Order ID 65293

January 11, 2011 9:16:56 AM



Page 1

Item ID: D3282-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Float Web (206L/407)

Start Date: 1/11/11 Start Qty: 4.00



Cust Item ID:

Required Date: 1/21/11 Req'd Qty: 4.00



Customer:

Reference:

Approvals:

Process Plan: *MP*

Date: *11-01-11* Tooling:

Date:

Run Start



QC:

Date: SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr

Revision Nbr

D3282

Rev C

100

0.00



Skidtubes

Skidtubes

Memo

0.00

Skidtubes

1-Cut to length as per Dwg D3282.
2- inspect for surface damage as per QSI0018
3- Deburr

4

BB
11/01/12

110

0.00



HAAS CNC VERTICAL MACHINING #1

HAAS 1

Memo

0.00

HAAS CNC vertical machine #1

1-Machine as per Folio FA579 & Dwg D3282
2-Deburr

ant 11/01/13

4 *8*

120

0.00



QC2- Inspect parts off machine FAI/FAIB

QC

Memo

0.00

Quality Control

ant 11/01/13

4 *8*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 65293

January 11, 2011 9:16:57 AM



Page 2

Item ID: D3282-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Float Web (206L/407)

Start Date: 1/11/11 Start Qty: 4.00



Cust Item ID:

Required Date: 1/21/11 Req'd Qty: 4.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 QC Quality Control	QC8- Inspect parts - second check Memo	0.00 0.00	SL	11/01/19					
140 HandFinish Hand Finishing	Chemical Conversion Coat per QSI005 4.1 Memo	0.00 0.00							
150 QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.00							

[Handwritten signature]

11-1-19 (4)

4 J BE 11-01-19

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

(b) (7)(C), (b) (7)(D)

Page 3

Accept

Setup Start

Stop

**Cust Item ID:**[illegible]

Customer:

Reference:

Run Start

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

Stop

Operation Description

Set Up/ Run Hours

Tool ID

Tool #

**Plan
Code**

**Accept
Qty**

Reject
QtyReject
Number

**Insp.
Stamp**

0.00

[REDACTED]

Skidtubes

0.00

Skidtubes

Memo

1-Install doublers as per Dwg D3282. Apply LPS-3 between doublers and web
A/RN/ALPS-3 *M116 551*

Skidtubes

0.00

[illegible]

QC5- Inspect part completeness to step on W/O

0.00

QC

Memo

Quality Control

0.00



Identify as per dwg & Stock Location:

0.00

Packaging

Packaging

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 65293

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Page 4

Item ID: D3282-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Float Web (206L/407)

Start Date: 1/11/11 Start Qty: 4.00



Cust Item ID:

Required Date: 1/21/11 Req'd Qty: 4.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

190

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

OK 11/01/24
mf

11-01-24

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

Picklist Print

January 11, 2011 9:16:56 AM

Page 1

Work Order ID: 65293

Parent Item: D3282-041

Parent Item Name: Float Web (206L/407)

Start Date: 1/11/11


Required Date: 1/21/11

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP Rev:B 05.09.23 Procedure change KJ/JLM


Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

MS20470AD4-7		Purchased	No			100	Each	2,292.000	57	228			
													
Rivet, Universal Head													

Location	Loc Qty	Loc Code
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ST320	2292	
115996	992	
116081	1300	


228

D2792-130		Manufactured	No			160	Each	48.0000	1	4			
													
EXTRUSION													

Location	Loc Qty	Loc Code
----------	---------	----------

MAT06	48	
61630	48	

4

D3283-1		Manufactured	No			160	Each	33.0000	2	8			
													
Doubler													

Location	Loc Qty	Loc Code
----------	---------	----------

ST046	31	
62966	15	
63572	16	
ST048	2	
57725	2	

3

5

11-01-20

BB 11/01/12

SAD

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

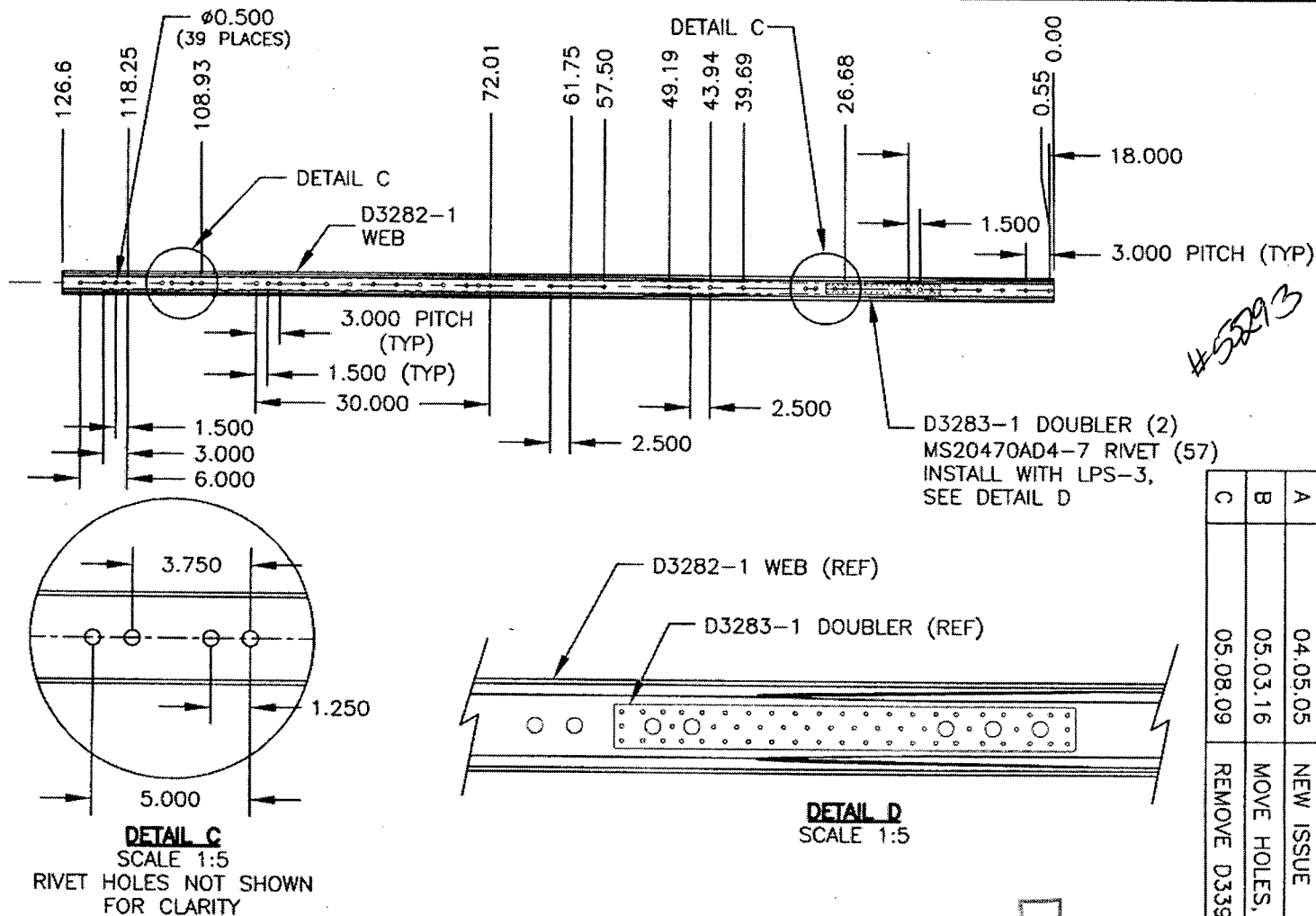
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries



DESIGN	DRAWN BY	DART AEROSPACE USA, INC.	REV. C
CP	CP	PORT HADLOCK, WA	
CHECKED	APPROVED	DRAWING NO.	SHEET 1 OF 2
#	#	D3282	SCALE
DATE		TITLE	
05.08.09		FLOAT WEB, 206L/407	1:20
A	04.05.05	NEW ISSUE	
B	05.03.16	MOVE HOLES, ADD D3390-1 DOUBLERS	
C	05.08.09	REMOVE D3390-1, NOW MACHINED	



D3282-041 FLOAT WEB

- 1) MAKE FROM D2792-130 EXTRUSION
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) BREAK ALL SHARP EDGES 0.010 TO 0.020
- 5) APPLY A LAYER OF LPS LABORATORIES' LPS-3 BETWEEN D3283-1 DOUBLERS AND D3282-1 WEB. INSTALL RIVETS COATED WITH LPS-3
- 6) SEE PAGE 2 FOR MACHINING DETAILS

RELEASED

05-09-12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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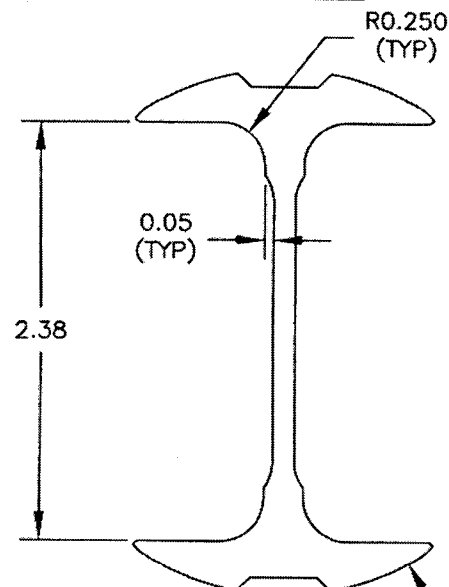
NOTE: Date & initial all entries



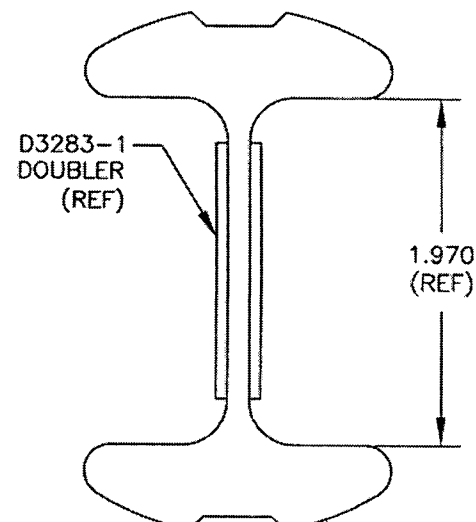
DESIGN	CP	DRAWN BY	CP	DART AEROSPACE USA, INC.
CHECKED	<i>[Signature]</i>	APPROVED	<i>[Signature]</i>	PORT HADLOCK, WA
DATE	05.08.09	TITLE	D3282	REV: C
			05.08.09	SHEET 2 OF 2
			05.08.09	SCALE
			05.08.09	1:20

#65293

SECTION A-A

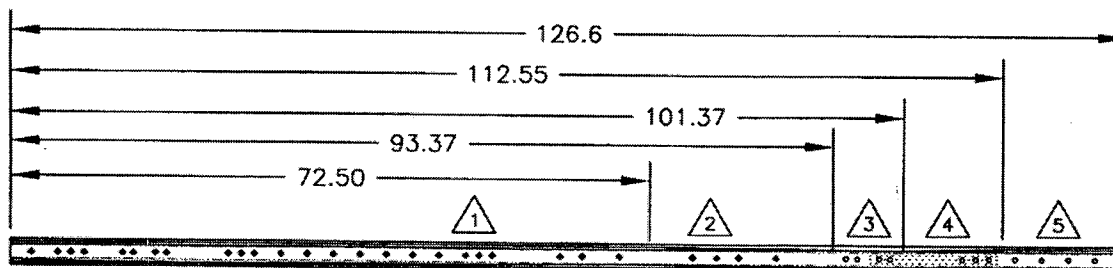


SECTION B-B



D3282-1 MACHINING NOTES

- 1 UNIFORM SECTION A-A
- 2 UNIFORM TAPER FROM SECTION A-A TO SECTION B-B
- 3 UNIFORM SECTION B-B
- 4 UNIFORM TAPER FROM SECTION B-B TO SECTION A-A
- 5 DRILL #30 ($\phi 0.128$ REF) HOLES (57 PLACES) TO LINE UP WITH D3283-1, SEE DETAIL D FOR REFERENCE
- 6 UNIFORM SECTION A-A
- 6 R1.00 BETWEEN SECTIONS



RELEASED
05-08-09

W/O:		WORK ORDER CHANGES					
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DART AEROSPACE LTD		Work Order:	
Description: Float Web		Part Number:	D3282-041
Inspection Dwg: D3282 Rev: C		Page 1 of 1	

FIRST ARTICLE INSPECTION CHECKLIST

☒ **First Article**

 ☐ **Prototype**

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
126.6	+/-0.100	126.6	—		M-type	ML-2
1.500	+/-0.010	1.500	—		Vern	ML-7
3.000	+/-0.010	3.000	—		"	"
6.000	+/-0.010	6.000	—		"	"
1.250	+/-0.010	1.250	—		"	"
30.000	+/-0.010	30.000	—		M-type	ML-2
1.500	+/-0.010	1.500	—		Vern	ML-7
72.01	+/-0.030	72.010	—		M-type	ML-2
61.75	+/-0.030	61.750	—		"	"
57.50	+/-0.030	57.500	—		"	"
49.19	+/-0.030	49.190	—		"	"
43.94	+/-0.030	43.940	—		"	"
39.69	+/-0.030	39.690	—		"	"
26.68	+/-0.030	26.68	—		"	"
0.55	+/-0.030	.550	—		Vern	ML-7
1.970	+/-0.010	1.971	—		"	"
2.38	+/-0.030	2.378	—		"	"
0.05	+/-0.030	.052	—		"	"

Measured by:	<i>[Signature]</i>	Audited by:	<i>[Signature]</i>	Prototype Approval:	N/A
Date:	11/01/18	Date:	11/01/19	Date:	N/A

Rev	Date	Change	Revised by	Approved
A	07.04.02	New Issue	KJ/JLM <i>[Signature]</i>	<i>[Signature]</i>